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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,981	12/30/2003	Mikko Jaakkola	KOLS.080PA	8840

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Hollingsworth & Funk, LLC
8009 34th Avenue South, Suite 125
Minneapolis, MN 55425

EXAMINER

NGUYEN, KHAI MINH

ART UNIT	PAPER NUMBER
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2617

MAIL DATE	DELIVERY MODE
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09/28/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/748,981

Applicant(s)

JAAKKOLA ET AL.

Examiner

Khai M. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 July 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>7/30/2007</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 7/30/2007 fails to comply with 37 CFR 1.98(a)(1), which requires the following: (1) a list of all patents, publications, applications, or other information submitted for consideration by the Office; (2) U.S. patents and U.S. patent application publications listed in a section separately from citations of other documents; (3) the application number of the application in which the information disclosure statement is being submitted on each page of the list; (4) a column that provides a blank space next to each document to be considered, for the examiner's initials; and (5) a heading that clearly indicates that the list is an information disclosure statement. The information disclosure statement has been placed in the application file, but the information referred to therein has not been considered.

Response to Arguments

2. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Balogh (WO 01/63843) in view of Fukuda (U.S.Pub-20030021254).

Regarding claim 1, Balogh teaches a method for arranging handover in a wireless telecommunications system, the method comprising

storing in a terminal connection settings (page 2, lines 7-14), wherein a network identifier (not show) is associated with at least some of the alternative connection settings (page 2, lines 7-29), the network identifier (not show) identifying a target network reachable by a connection from the terminal (page 2, line 7 to page 3, line 9),

comparing (abstract), in the terminal (abstract), the current network identifier (not show) associated with the currently applied at least one connection setting to the stored network identifier (not show) associated with at least one other available connection setting (page 2, line 7 to page 3, line 9),

selecting at least one connection setting associated with the same network identifier (not show) as the network identifier (not show) associated with the currently applied at least one connection setting (page 2, line 7 to page 3, line 9), and

carrying out handover by using the selected at least one connection setting (page 2, line 7 to page 3, line 9)

Balogh fails to specifically disclose network identifier, comparing, and selecting at least one connection setting associated with the same network identifier as the network identifier associated with the currently applied at least one connection setting. However, Fukuda teaches network identifier (fig.4), comparing (fig.4, step 112), and selecting at least one connection setting associated with the same network identifier as the network identifier associated with the currently applied at least one connection setting (fig.4,

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paragraph0039-0043). Therefore, it would have been obvious to one having ordinary in the art at the time the invention was made to apply the teaching of Fukuda to Balogh to provided with opportunity to select one of available information sets or approve the available information set.

Regarding claim 2, Fukuda and Balogh further teach the method according to claim 1, wherein the network identifier (see Fukuda, fig.4) of the at least one other available connection setting is checked in response to a need to arrange handover (see Balogh, abstract) for the original connection based on the currently applied at least one connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 3, Fukuda and Balogh further teach the method according to claim 2, wherein at least one other available connection setting associated with a different network identifier than the one associated with the at least one currently applied connection setting is dropped (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), and a handover algorithm is executed for the remaining connection settings (see Fukuda, fig.4, paragraph 0039-0043).

Regarding claim 4, Fukuda and Balogh further teach the method according to claim 1, wherein at least one other available connection setting associated with a different network identifier (see Fukuda, fig.4, paragraph 0039-0043) than the one associated with the at least one currently applied connection setting is dropped (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), and

a handover algorithm is executed for the remaining connection settings (see Fukuda, fig.4, paragraph 0039-0043).

Regarding claim 5, Fukuda and Balogh further teach the method according to claim 1, wherein the network identifier associated with at least one connection setting selected by a handover algorithm is checked, and

handover is carried out using the selected at least one connection setting if the network identifier is the same as the network identifier associated with the currently applied at least one connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), or

at least one new connection setting is selected (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 6, Fukuda and Balogh further teach the method according to claim 1, wherein at least one network identifier is defined internally in the terminal and associated with at least one connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 7, Fukuda and Balogh further teach the method according to claim 1, wherein the connection setting are grouped as alternative groups of connection setting such that at least one network identifier is associated with each group (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), the network identifiers of different groups are compared with the network identifier associated (see Fukuda, fig.4, paragraph 0039-0043) with the network identifier as

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associated with the currently applied at least on connection setting for the new connection (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 8, Fukuda and Balogh further teach the method according to claim 1, wherein the at least one available connection setting is determined based on information received from the network (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 9, Balogh teaches a wireless terminal comprising means for establishing access with a wireless network, wherein

the terminal is configured to store connection settings (page 2, lines 7-14), wherein a network identifier (not show) is associated with at least some of the alternative connection settings (page 2, lines 7-29), the network identifier (not show) identifying a target network reachable by a connection from the terminal (page 2, line 7 to page 3, line 9),

the terminal is configured to compare (abstract) the current network identifier (not show) associated with the currently applied at least one connection setting to the stored network identifier (not show) associated with at least one other available connection setting associated with the same network identifier (not show) as the network identifier (not show) associated with the currently applied at least one connection setting (page 2, line 7 to page 3, line 9), and

the terminal is configured to carry out handover by using the selected at least one connection setting (page 2, line 7 to page 3, line 9).

Balogh fails to specifically disclose network identifier, the terminal is configured to compare the current network identifier associated with the currently applied at least one connection setting to the stored network identifier associated with at least one other available connection setting associated with the same network identifier as the network identifier. However, Fukuda teaches network identifier (fig.4), the terminal is configured to compare the current network identifier associated with the currently applied at least one connection setting to the stored network identifier associated with at least one other available connection setting associated with the same network identifier as the network identifier (fig.4, paragraph0039-0043). Therefore, it would have been obvious to one having ordinary in the art at the time the invention was made to apply the teaching of Fukuda to Balogh to provided with opportunity to select one of available information sets or approve the available information set.

Regarding claim 10, Fukuda and Balogh further teach the terminal according to claim 9, wherein the terminal is configured to check the network identifier of the at least one other available connection setting in response to a need to arrange handover (see Fukuda, fig.4, paragraph 0039-0043) for the original connection based on the currently applied at least one connection setting (see Balogh, abstract).

Regarding claim 11, Fukuda and Balogh further teach the terminal according to claim 10, wherein the terminal is configured to drop at least one other available

connection setting associated with a different network identifier than the one associated with the at least one currently applied connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), and

the terminal is configured to execute a handover algorithm for the remaining connection settings (see Fukuda, fig.4, paragraph 0039-0043).

Regarding claim 12, Fukuda and Balogh further teach the terminal according to claim 9, wherein the terminal is configured to drop at least one other available connection setting associated with a different network identifier than the one associated with the at least one currently applied connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), and the terminal is configured to execute a handover algorithm for the remaining connection settings (see Fukuda).

Regarding claim 13, Fukuda and Balogh further teach the terminal according to claim 9, wherein the terminal is configured to check the network identifier associated with at least one connection setting selected by a handover algorithm (see Fukuda, fig.4, paragraph 0039-0043), and the terminal is configured to carry out the handover using the selected at least one connection setting if the network identifier is the same as the network identifier associated with the currently applied at least one connection setting (see Fukuda, fig.4, paragraph 0039-0043), or

the terminal is configured to select at least one new connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 14, Fukuda and Balogh further teach the terminal according to claim 9, wherein the terminal is configured to define at least one network identifier internally and the terminal is configured to associate the network identifier with at least one connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 15, Fukuda and Balogh further teach the terminal according to claim 9, wherein the connection setting are grouped as alternative groups of connection setting, and at least one network identifier is associated with each group (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), whereby the terminal is configured to compare the network identifiers of different groups with the network identifier associated with the currently applied at least one connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)),

The terminal is configured to select for the new connection one of the groups having the same network identifier as associated with the currently applied at least one new connection setting is selected (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 16, Fukuda and Balogh further teach the terminal according to claim 9, wherein the terminal is configured to determine the available at least one connection setting based on information received from the network (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 17, Balogh teaches a computer-readable medium, wherein said computer-readable medium comprises computer-executable instructions stored thereon for controlling a wireless terminal to:

store connection settings (page 2, lines 7-14), wherein a network identifier (not show) is associated with at least some of the alternative connection settings (page 2, lines 7-29), the network identifier (not show) identifying a target network reachable by a connection from the terminal (page 2, line 7 to page 3, line 9),

compare the current network identifier (not show) associated with the currently applied at least one connection setting to the stored network identifier (not show) associated with at least one available other connection setting (page 2, line 7 to page 3, line 9),

select at least one connection setting associated with the same network identifier (not show) as the network identifier (not show) associated with the currently applied at least one connection setting (page 2, line 7 to page 3, line 9), and

carry out handover by using the selected at least one connection setting (page 2, line 7 to page 3, line 9)

Balogh fails to specifically disclose network identifier, compare, and select at least one connection setting associated with the same network identifier as the network identifier associated with the currently applied at least one connection setting. However, Fukuda teaches network identifier (fig.4), compare (fig.4, step 112), and select at least one connection setting associated with the same network identifier as the network

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identifier associated with the currently applied at least one connection setting (fig.4, paragraph0039-0043). Therefore, it would have been obvious to one having ordinary in the art at the time the invention was made to apply the teaching of Fukuda to Balogh to provided with opportunity to select one of available information sets or approve the available information set.

Regarding claim 18, Fukuda and Balogh further teach 18. The computer-readable medium according to claim 17, said computer-readable medium comprises computer-executable instructions for checking the network identifier (see Fukuda, fig.4) of the at least one other available connection setting in response to a need to arrange handover for the original connection based on the currently applied at least one connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 19, Balogh teaches an apparatus comprising:

means for establishing access with a wireless network (abstract),

means for storing connection settings (page 2, lines 7-14), wherein a network identifier (not show) is associated with at least some of the alternative connection settings (page 2, lines 7-29), the network identifier (not show) identifying a target network reachable by a connection from the terminal (page 2, line 7 to page 3, line 9),

means for comparing (abstract) the current network identifier (not show) associated with the currently applied at least one connection setting to the stored network identifier (not show) associated with at least one other available connection

setting associated with the same network identifier (not show) as the network identifier associated with the currently applied at least one connection setting (page 2, line 7 to page 3, line 9), and

means for carrying out handover by using the selected at least one connection setting (page 2, line 7 to page 3, line 9),

Balogh fails to specifically disclose network identifier, compare, and select at least one connection setting associated with the same network identifier as the network identifier associated with the currently applied at least one connection setting. However, Fukuda teaches network identifier (fig.4), compare (fig.4, step 112), and select at least one connection setting associated with the same network identifier as the network identifier associated with the currently applied at least one connection setting (fig.4, paragraph0039-0043). Therefore, it would have been obvious to one having ordinary in the art at the time the invention was made to apply the teaching of Fukuda to Balogh to provided with opportunity to select one of available information sets or approve the available information set.

Regarding claim 20, Fukuda and Balogh further teach the apparatus according to claim 19, comprising means for checking the network identifier (see Fukuda, fig.4) of the at least one other available connection setting in response to a need to arrange handover for the original connection based on the currently applied at least one connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

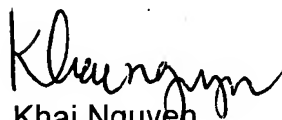
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Conclusion

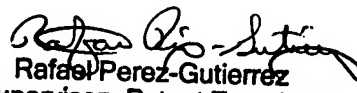
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai M. Nguyen whose telephone number is 571.272.7923. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rafael Perez-Gutierrez can be reached on 571.272.7915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


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Au: 2617

9/20/2007


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